onga®

TAKING WATER FURTHER

Dominator Submersible Pump

Owner's Manual

Should the installer or owner be unfamiliar with the correct installation or operation of this type of equipment you should contact the distributor/manufacturer for the correct advice before proceeding with the installation or operation of the product.

Relax - you've bought an Onga ...

Congratulations on your decision to purchase an Onga product. Onga is one of the best known companies in its field, with a proud local and international reputation.

In fact, wherever people need to move water from one point to another - whether in leisure, industry, horticulture, agriculture or in and around the home - Onga is a byword for reliability, value for money and technological innovation. So why does Onga lead its field? Here are a few simple reasons ...

1. **Continual Product Improvement**
   Onga employ the best engineers both in Australia and around the world to develop new and better ways to pump and handle water.

2. **Dedication to Quality**
   There is only one standard that we at Onga set ourselves for both product quality and the quality of our service. That standard is excellence ... to have no-one better than us at what we do ... nothing short of that is acceptable.

3. **A Fair Price**
   Onga products are neither the cheapest nor the most expensive in their field. Our products do, on the other hand, always represent very good value for money - they always have and they always will.

4. **Our Team of Dealers**
   We believe Onga's hand picked authorised dealer network throughout Australia and worldwide are second to none. We invest a huge sum training them and supporting them. They are your link to us, and we value their expertise and trust.

Table of Contents

1 Warnings Page 3
2 Models and technical information Page 4
3 Application Page 5
4 Installation
- Preparation for operation
- Pump Protection
- Suction
  - Shallow Well
  - Deep Well
- Discharge

5 Operation Page 6
6 Service & Maintenance Page 7
7 Exploded diagram- Internal parts Page 8
8 Warranty Page 10
9 Purchase Details Page 11

1. Warnings:

	These instructions are a guide only. Users not familiar with pumping equipment should seek advice from people with experience in pump equipment and installation
	The pump operator must be provided with this owner's manual. This must be read before operation and followed during operation.
	Do not run the pump without liquid . Always fensure the pump is submerged before operation. Do not allow the pump to continue running once the water supply is empty.
	The pump cannot be used to move inflammable or dangerous liquids
	Isolate the pump electrically during instalation or servicing
	Do not operate the pump in an explosive environment or near combustible matter.
	Make sure that there is a float switch or loss of prime switch that stops the pump when the water supply is empty

1. MODELS AND TECHNICAL INFORMATION

Technical Data

Inlet:	Screen
Outlet:	1 ¼" BSP
Stages	8
Max Discharge Pressure	57m
Maximum immersion 20m	
Minimum well diameter	100mm
Water temp range	2°C – 40°C
Max dimension of solids	2mm
Maximum amount of sand	50 g/m^3
Max cycles per hour	30 (equally spaced)
Nominal power	1.1kW
Power Supply	230V – 1ø – 50Hz
Run amps	5A
Capacitor	16µF

Optional accessories

Presscontrol Item Code 702453

(pressure control with loss of prime protection)

2 APPLICATION.

Dominators are multistage submersible pumps. They are suitable for use in clean water without disolved gasses. The pump components are suitable for use with potable water.

4. INSTALLATION

a) Preparation for operation

Read these instructions first

Inspect your pump for shipping damage. Report any damage to your Onga dealer no later than 8 days from purchase date.

Ensure that the electrical supply has sufficient voltage and current capacity.

b) Pump Protection

Warranty of these pumps is void unless they are operated in accordance with this owner's manual. The pumps should be protected from the weather, floods, chemicals, dust, vermin, insects etc. It is advisable to fit a check valve to prevent fluid from recirculating when the pump is stopped. Avoid using an electrical cable to lift or transport the pump. Use the nylon rope supplied or a stainless steel cable to support the pump. It is advisable to connect the electrical cable to the delivery line at three metre intervals.

It is advisable to fit automatic level controls to prevent the pump running without liquid, and a pressure gauge to verify operation

4. INSTALLATION CONTINUED

c) Electrical connections

Ensure that the pump is disconnected from the power supply during installation, or before moving or servicing the pump.

Dominator pumps are supplied with a 10A plug for direct connection into a 10A GPO. The pump has a double ground contact to this plug, in this case the pump is grounded when the plug is connected to a grounded supply.

The power cord is not a user serviceable item. It must be replaced by the manufacturer using special tools.

The pump is supplied with an in-built thermal circuit breaker with automatic reset.

All electrical work must be carried out in accordance with local regulations.

The power supply must be fitted with a residual current device (earth leakage protection) with sensitivity of 30mA or less.

d) Discharge

The length and diameter of the discharge lines will affect the pressure and flow rate at which your pump operates. Care should be taken when selecting discharge pipe/hoses and fittings. Pressure ratings of all components must exceed the maximum pressure of the pump by an appropriate safety factor.

5. OPERATION

Ensure that your pump is submerged before operating.

Connect discharge piping, and ensure that the suction is completely submerged.

Do not remove any caps while pump is operationg.

6 SERVICE & MAINTENANCE

Under normal conditions DOMINATOR submersible pumps do not require any maintenance. In order to avoid possible failures, it is advisable to periodically check the pressure supplied and the current absorption. A decrease in pressure is a symptom of wear. An increase in current absorption is a sign of abnormal mechanical friction in the pump and/or motor.
If the submersible pump is not going to be used for long periods of time it should be emptied completely, rinced with clean water and stored in a dry place.

Cleaning the filter

If the water supply is not perfectly clean, it may be nessary to clean the filter with a steel brush to scrape the dirt accumulated on the external surface. It is also possible to clean the internal section of the filter.
Loosen the screw that fixes the filter to the body of the electropump and remove it. Scrape the dirt with a steel brush and rince it with clean water.

	Do not operate the unit without the filter screen fitted.

If this is not sufficent, have the hydraulic parts cleaned by an authorised service center.

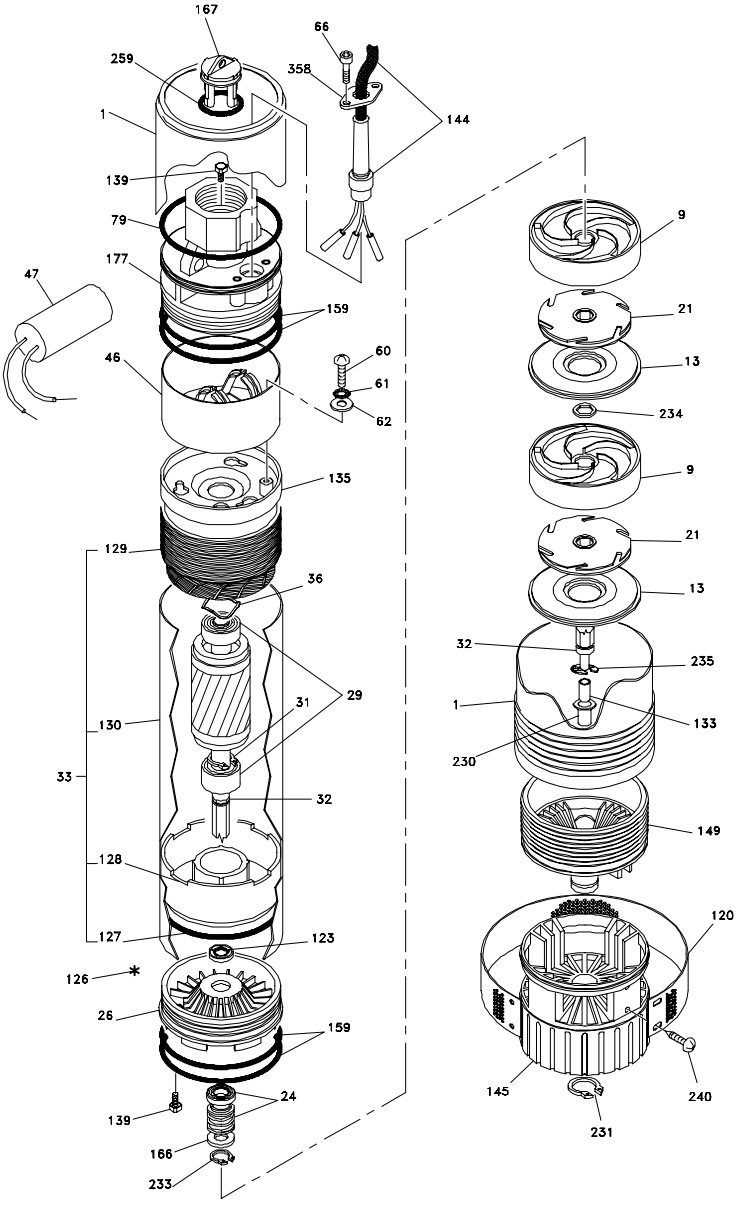
	Pumping water containing solids will reduce the life of the pump, and may affect warranty.
	Pumping chemicals or agricultural products voids warranty.
	Do not pump hydrocarbons with this pump.
	If the pump is not going to be used for a long period, it should be completely emptied, rinced with clean, fresh water, and stored in a dry place

Always use origional service parts as supplied and recommended by Onga. Failure to do so may void warranty.

7. TROUBLESHOOTING.

Problem	Possible cause	Suggested Solution
The motor will not run, no water is pumped	1) No power supply 2) Motor protection tripped 3) Defective capacitor 4) Pump blocked	1) Check voltage at the supply, and check that the plug is connected securley 2) Wait for internal protection to reset. 3) Replace the capacitor. 4) Unblock the pump.
The motor runs, but no water is pumped.	1) The pump is not submerged. 2) The suction strainer is blocked. 3) The check valve is blocked	1) Check that the liquid level has not droped below the minimum level. 2) Clean the suction strainer. 3) Clean or replace the valve
The pump stops after running for a short period of time (Thermal overload)	1) The power supply is unsuitable. 2) Solids are block ing the pump. 3) The liquid is too thick.	1) Check the supply voltage. 2) Have the pump disassembled and cleaned by an au thorised dealer. 3) See your dealer for an alternate pump.

Exploded diagram- Internal parts



Drawing shows typical assembly, please note actual parts may vary in appearance

Exploded diagram- Internal parts

Ref	Description	Qty
1	Pump body	1.00
9	Diffuser	8.00
13	Diffuser cap	8.00
21	Impeller	8.00
24	Mecanical seal	1.00
26	Flange (Mechanical seal holder)	1.00
29	Bearing	1.00
31	Snap ring (Pump side)	1.00
32	Shaft (Including rotor)	1.00
33	Case (Including stator)	1.00
36	Ring	1.00
46	Capacitor Holder	1.00
47	Capacitor	1.00
60	Screw (Ground)	1.00
61	Washer (Ground screw toothed)	1.00
62	Washer (Ground screw plain)	1.00
66	Screw (Cable gland)	2.00
79	Gasket (Pump body)	1.00
120	Filter	1.00
123	Ring (Seal)	1.00
126	Lubricant	1.00
127	O-Ring (Lower bearing flange)	1.00
128	Flange (Lower bearing holder)	1.00
129	Stator (Single phase wound)	1.00
130	Motor body	1.00
133	Bushing (Ceramic)	1.00
135	Flange (Upper bearing holder)	1.00
139	Screw (Inspection)	2.00
144	Cable (Power ~ single phase w/grommet)	1.00
145	Base (Filter)	1.00
149	Flange (Suction)	1.00
159	O-Ring (Cover)	4.00
166	Washer (Seal compression)	1.00
167	Check Valve	1.00
177	Cover	1.00
230	Bearing (Bronze)	1.00
231	Snap ring	1.00
233	Snap ring	1.00
234	Ring (Anti-wear)	7.00
235	Snap ring (Start up)	1.00
240	Screw (Wire cover)	2.00
259	O-Ring (Vent valve)	1.00
358	Flange (Cording clamp)	1.00

Onga Product Warranty

Onga warrants that, when this product is used for the purpose it was designed, is correctly housed and vented against weather, vermin, dust etc., that it will be free of material and manufacturing defects at the time of the original purchase.

This warranty is limited to the cost of the product and does not cover third party costs including the costs of electricians, plumbers, etc. unless authorised by Onga pumps.

TERMS AND CONDITIONS APPLICABLE INTERNATIONALLY

How long the warranty is effective Internationally

1) This Onga product is warranted for 12 months for all parts from the date of the first consumer purchase. Should any parts fail as a result of such defects within the specified period, the part will be replaced free of charge. (This does not include travel charges, removal and reinstallation charges.)

TERMS AND CONDITIONS APPLICABLE IN AUSTRALIA AND NEW ZEALAND

1) YOU SHOULD CAREFULLY READ THE INSTRUCTIONS SUPPLIED PRIOR TO USING THIS ONGA PRODUCT.

This product is to be installed and operated in accordance with the instructions provided. This warranty will not apply if it is used in a manner otherwise than in accordance with the instructions.

What the warranty covers:

Onga **warrants its products to be free of defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, then** Onga **will, at its sole option** repair or replace the product with a like product. Replacement product or parts may include re-manufactured or refurbished parts or components.

How long the warranty is effective:

1) **This Onga product is warranted for 12 months for all parts from the date of the first consumer purchase.**
2) **Where this Onga product is sold for commercial application as defined in the relevant Trade Practices and Consumer Protection legislation the warranty shall be for a period of six months from the date of purchase by the end user.**
3) **Ancillary equipment including but not limited to plastics and metal fittings, electrical controls (including touch pads), bladders, pressure switches, filter cartridges, pressure gauges, etc. shall be warranted for a period of twelve months only in relation to consumer applications and six months in relation to commercial applications.**

Who the warranty protects:

This warranty is valid only for the consumer purchaser.

What the warranty does not cover:

1) **Damage, deterioration or malfunction resulting from:**
   - **a) accident, misuse, negligence, fire, water, lightning, or other acts of nature, unauthorised product modification or failure to follow instructions supplied with the product;**
   - **b) repair or attempted repair by anyone not authorised by Onga;**
   - **c) any damage to the product due to shipment;**
   - **d) removal or installation of the product;**
   - **e) causes external to the product such as electric power fluctuations or failure;**
   - **f) use of supplies or parts not meeting Onga specifications;**
   - **g) normal wear and tear;**
   - **h) water ingression or exposure to abnormal corrosive conditions or run in dry conditions;**
   - **i) any other cause which does not relate to a product defect.**
2) **Damage caused to the product as a consequence of use of another manufacturer's product used in conjunction with Onga and affiliate companies.**
3) **This warranty does not cover such products as combustion engines, mechanical seals or other component parts of units not manufactured by Onga, but where possible Onga will make available to purchaser the benefit of any warranty of that manufacturer.**
4) **This guarantee does not cover underwater light bulbs, underwater lights will only be warranted if wiring is to approved standards, and an approved transformer incorporating thermistors has been used, running the light not submerged in water will void warranty.**

Onga Product Warranty (Continued)

5) **Hydrostatic relief valve supplied separately or incorporated in products are sold with the express understanding that such products offer limited hydrostatic relief and no offer is made or implied as to the suitability of such products for a specific application as their condition at the time of sale are unknown and beyond Onga's control. It is the responsibility of the installer to ensure that the performance of the valve meets the required application.**
6) **Swimming pools or spa equipment will not be warranted where the Langelier Saturation Index 'pH' range is outside 7.2 to 7.6 and they have not been regularly treated with chlorine or bromine based sanitising systems, or other recognised sanitising systems.**

Spare Parts:
Spare parts are usually stocked for a reasonable period of time following last production.

Onga does not warrant that spare parts will be made available for the whole of the reasonable period and reserves its right to cease supplying spare parts or providing facilities for repair of spare parts in circumstances which are beyond its control including the requirement to remove spare parts from sale as a consequence of changes in the law or otherwise as it deems fit.

How to get service: **In Australia please contact 1800 664 266**
In New Zealand please contact 0800 664 269

Claims under this warranty must give evidence of date of purchase, model and serial number of the product and the claimants name, address and telephone number.

1) To obtain warranted service, you will be required to provide to either Onga state office or recommended service agent:-
   a) the product;
   b) confirmation in writing specifying the nature of your claim;
   c) proof providing date of original purchase;
   d) full contact details including name and address;
   e) the serial number of the product if any.
2) The product is to be forwarded by the customer freight paid to Onga.
   Infield service by an authorised Onga Service Agent will incur a travel, removal & reinstallation fee to adjudicate on warranty issues. Authorised warranty will be free of charge for the first 12 month period from date of the first consumer purchase.
3) Warranty service work will be denied or suspended, on equipment not readily accessible to service personnel, that is products that are behind barriers, tiled or bricked in, installed in roofs or second storey external walls including inaccessible power points.
4) Any service of any product which is found to be faulty due to abuse, misuse or improper installation will be charged to the owner at the service agents current servicing

Limitation of implied warranties:

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Exclusion of damages:

ONGA'S LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT. ONGA SHALL NOT BE LIABLE FOR:

1) DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE PRODUCT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY, LOSS OF GOODWILL, INTERFERENCE OF BUSINESS RELATIONSHIPS, OR OTHER COMMERCIAL LOSS, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
2) ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.
3) ANY CLAIM AGAINST THE CUSTOMER BY ANY OTHER PARTY.

Effective law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Nothing in this warranty limits or restricts, or is intended to derogate from, any right or remedy which the purchaser or ultimate user of the product may have pursuant to Australian state and/or Australian federal consumer protection legislation, New Zealand Sale of Goods Act, Consumer Guarantees Act, Fair Trading Act or any other relevant and applicable New Zealand legislation or authority and where necessary shall so be read and construed.

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